AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-9. (Cancelled)
- 10. (Original) A method for electromagnetic tracking, said method comprising:

selecting a tracker configuration for components in an electromagnetic tracker;

generating a processing scheme for the tracker configuration; and applying the processing scheme to the components in the electromagnetic tracker.

11. (Original) The method of claim 10, wherein said generating step further comprises generating a processing scheme on demand.

- 12. (Original) The method of claim 10, wherein said generating step further comprises generating a processing scheme for the tracker configuration using software.
- 13. (Original) The method of claim 10, wherein said generating step further comprises generating a processing scheme for the tracker configuration using a configurable processor.
- 14. (Original) The method of claim 10, further comprising storing the processing scheme in memory.
- 15. (Original) The method of claim 10, further comprising determining at least one of a position and an orientation of at least one component in the electromagnetic tracker.
- 16. (Original) A configurable electromagnetic tracking system, said system comprising:

at least one of a transmitter and a receiver for measuring a position in a coordinate system;

tracker electronics for determining position of said at least one of a transmitter and a receiver using information from said at least one of a transmitter and a receiver, said tracker electronics configurable for a plurality of tracking system architectures.

- 17. (Original) The system of claim 16, wherein said tracker electronics generates a processing scheme for a tracking system architecture.
- 18. (Original) The system of claim 16, wherein said tracker electronics simultaneously supports a plurality of tracking system architectures.
- 19. (Original) The system of claim 16, wherein said tracker electronics comprise modular, configurable tracker electronics.
- 20. (Original) The system of claim 16, wherein said tracker electronics uses software to generate support for said plurality of tracking system architectures.

- 21. (New) The system of claim 16, wherein said tracker electronics are configured by software to accommodate the plurality of tracking system architectures.
- 22. (New) The system of claim 16, wherein said tracker electronics store waveforms in memory for said plurality of tracking system architectures.
- 23. (New) The system of claim 16, wherein said tracker electronics generate waveforms on demand for at least one of said plurality of tracking system architectures.
- 24. (New) The system of claim 16, wherein said tracker electronics store software in memory for said plurality of tracking system architectures.
- 25. (New) The system of claim 16, wherein said tracker electronics generate software code on demand for at least one of said plurality of tracking system architectures.

- 26. (New) The system of claim 16, wherein the system includes both a transmitter and a receiver, and wherein the tracker electronics determine at least one of a position and an orientation of the receiver using information from the transmitter.
- 27. (New) The system of claim 16, wherein the system includes both a transmitter and a receiver, and wherein the tracker electronics determine at least one of a position and an orientation of the transmitter using information from the receiver.